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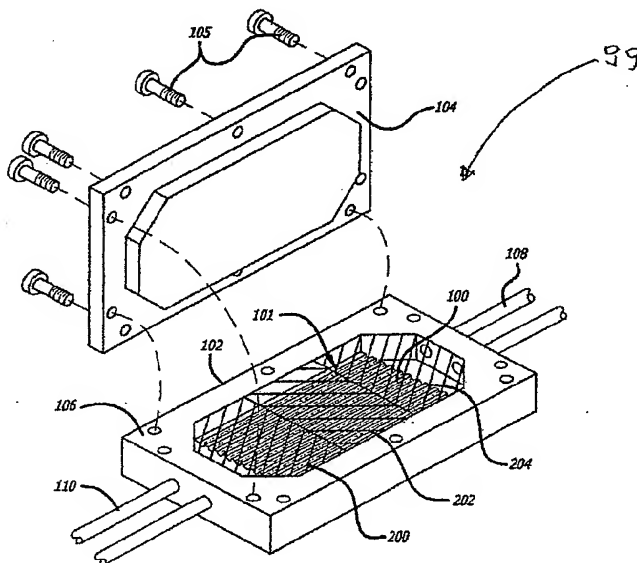
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(54) Title: **HYDROGEN GENERATION APPARATUS INCORPORATING A STAGED CATALYST AND METHOD FOR USING SAME**



(57) Abstract: A method and apparatus for generation of hydrogen. The apparatus includes a hydrogen reactor chamber (99) and a plurality of catalysts within the chamber (99) forming distinct zones or portions (200, 202 and 204), each zone or portion comprising a distinct catalyst or combination thereof. Said plurality of catalysts include at least one of a high-activity steam reformation catalyst, coke resistant steam reformation catalyst and steam reformation catalyst that promotes a water gas shift reaction.

WO 2005/099885 A1



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